

INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP 02/12417

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 D21G1/00

28 APR 2005

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 D21G

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4 960 046 A (ANSTOETZ HELMUT ET AL) 2 October 1990 (1990-10-02) column 3, line 42 -column 4, line 50; figure --- US 6 003 440 A (KYYTSONEN MARKKU ET AL) 21 December 1999 (1999-12-21) cited in the application column 1, line 63 -column 2, line 51 column 5, line 17 -column 6, line 28 figures 2,5A,5B,5C --- US 4 332 191 A (KANKAANPAA MATTI) 1 June 1982 (1982-06-01) cited in the application column 10, line 59 -column 11, line 29 figures 5D,5E ---	1,3,5,7, 11,13 1,4,6,7, 12,14 1,3,5,7, 10,11,13
		-/-

 Further documents are listed in the continuation of box C. Patent family members are listed in annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

- *&* document member of the same patent family

Date of the actual completion of the international search

Date of mailing of the international search report

13 June 2003

01/07/2003

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Maisonner, C

INTERNATIONAL SEARCH REPORT

Int'l. Search Application No
PCT/EP02/12117

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4 375 188 A (LEIVISKAE VEIKKO) 1 March 1983 (1983-03-01) cited in the application column 5, line 20 - line 47 figures 3A,3B,3C ---	1,2,7,10
X	DE 201 03 292 U (METSO PAPER INC) 7 June 2001 (2001-06-07) page 6, paragraph 8 -page 11, paragraph 2 figure 1 ---	1,7
A	EP 0 661 405 A (VALMET PAPER MACHINERY INC) 5 July 1995 (1995-07-05) column 5, line 29 -column 6, line 45 figures 2A,2B,2C ---	1,7

INTERNATIONAL SEARCH REPORT

Information on patent family members

Int'l. Application No
PCT/EP 02/12117

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
US 4960046	A	02-10-1990	DE FI FR GB JP JP JP	3821027 A1 892935 A 2634800 A1 2220011 A ,B 1728006 C 2033391 A 4011676 B		28-12-1989 23-12-1989 02-02-1990 28-12-1989 19-01-1993 02-02-1990 02-03-1992
US 6003440	A	21-12-1999	FI EP WO	960821 A 0961854 A1 9731150 A1		24-08-1997 08-12-1999 28-08-1997
US 4332191	A	01-06-1982	FI BR CA EP JP NO	793200 A 8006621 A 1150084 A1 0027270 A1 56062195 A 803068 A		16-04-1981 22-04-1981 19-07-1983 22-04-1981 27-05-1981 21-04-1981
US 4375188	A	01-03-1983	FI DE SE SE	801853 A 3121713 A1 451204 B 8103578 A		11-12-1981 04-03-1982 14-09-1987 11-12-1981
DE 20103292	U	07-06-2001	FI DE	4460 U1 20103292 U1		02-06-2000 07-06-2001
EP 0661405	A	05-07-1995	FI AT CA DE DE EP US	935912 A 177803 T 2139148 A1 69417197 D1 69417197 T2 0661405 A1 5590593 A		30-06-1995 15-04-1999 30-06-1995 22-04-1999 18-11-1999 05-07-1995 07-01-1997

THIS PAGE BLANK (USPTO)